

Amendments to the Specification:

Please insert the following paragraph beginning at page 7, line 10:

Fig. 14 is a partial cross-sectional view of the vessel of Fig. 1 with a check valve inserted as a flow restriction device.

Please replace the paragraph beginning at page 15, line 9, with the following amended paragraph:

A flow restriction device 92 is preferably placed over the reaction wells 30 to reduce vapor phase cross-talk between adjacent wells 30 (Figs. 7 and 8). The flow restriction device 92 may comprise, for example, a cover member having a plurality of very small vent holes 96 aligned with the reaction wells 30 to provide fluid communication between the wells and the pressure chamber 26. The cover member 92 may be a rigid metal plate with vent holes drilled therein or a flexible elastomeric sheet (e.g., septum sheet) with vent holes punched therein. The member 92 may also be a porous sheet with the pores providing fluid communication between the reaction wells 30 and the pressure chamber 26. The flow restriction device 92 may also include check valves 140 which allow flow into the reaction wells 30 but restrict flow from the reaction wells to the pressure chamber 26 (shown schematically in Fig. 14). The vent holes within the flow restriction device 92 may also be micromachined flow restrictions.